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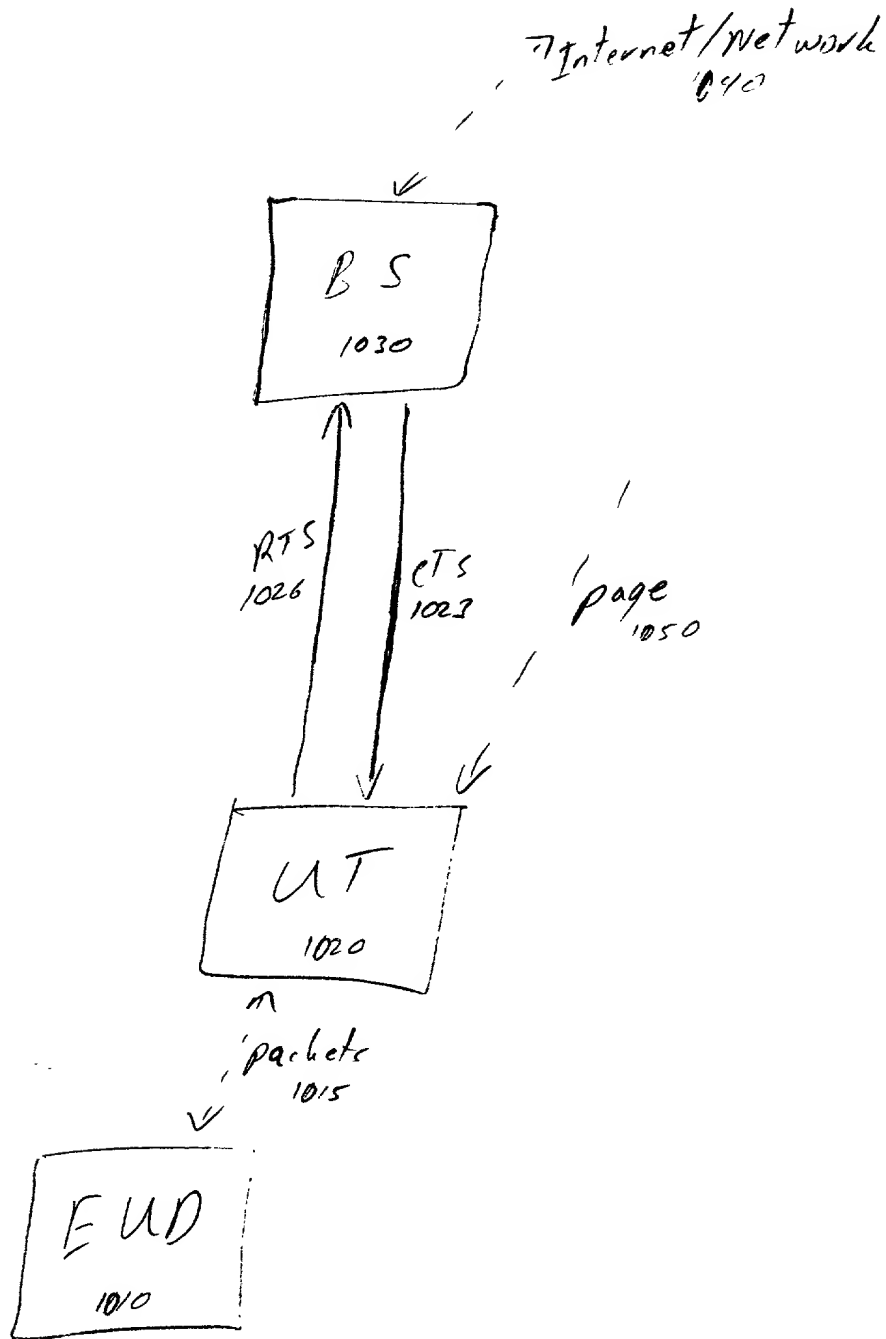
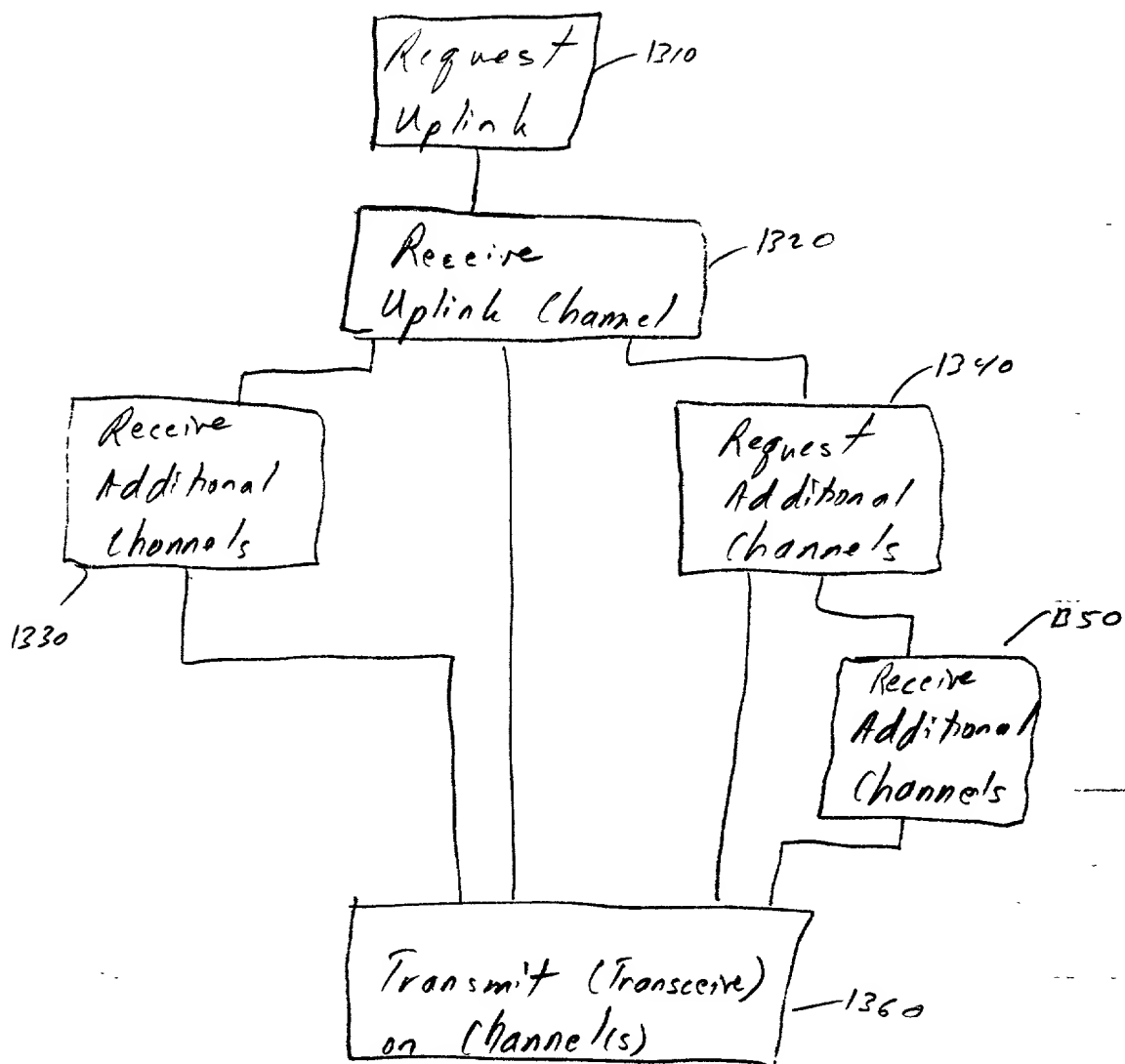


Fig. 1A

	A	B	C
1			
3			
5			
7			
9			
11			
13			
15			

Fig. 1B



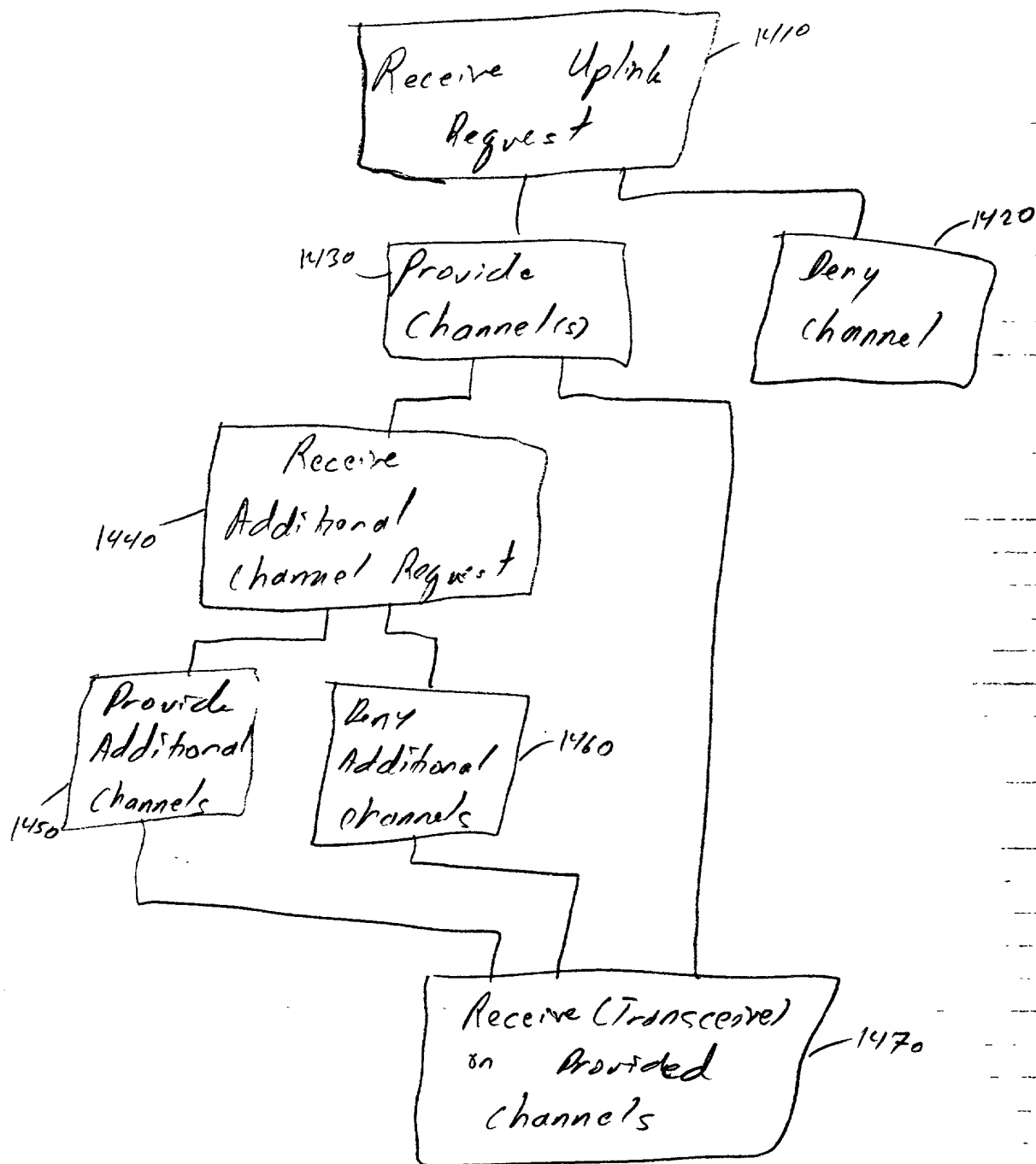


Fig. 3



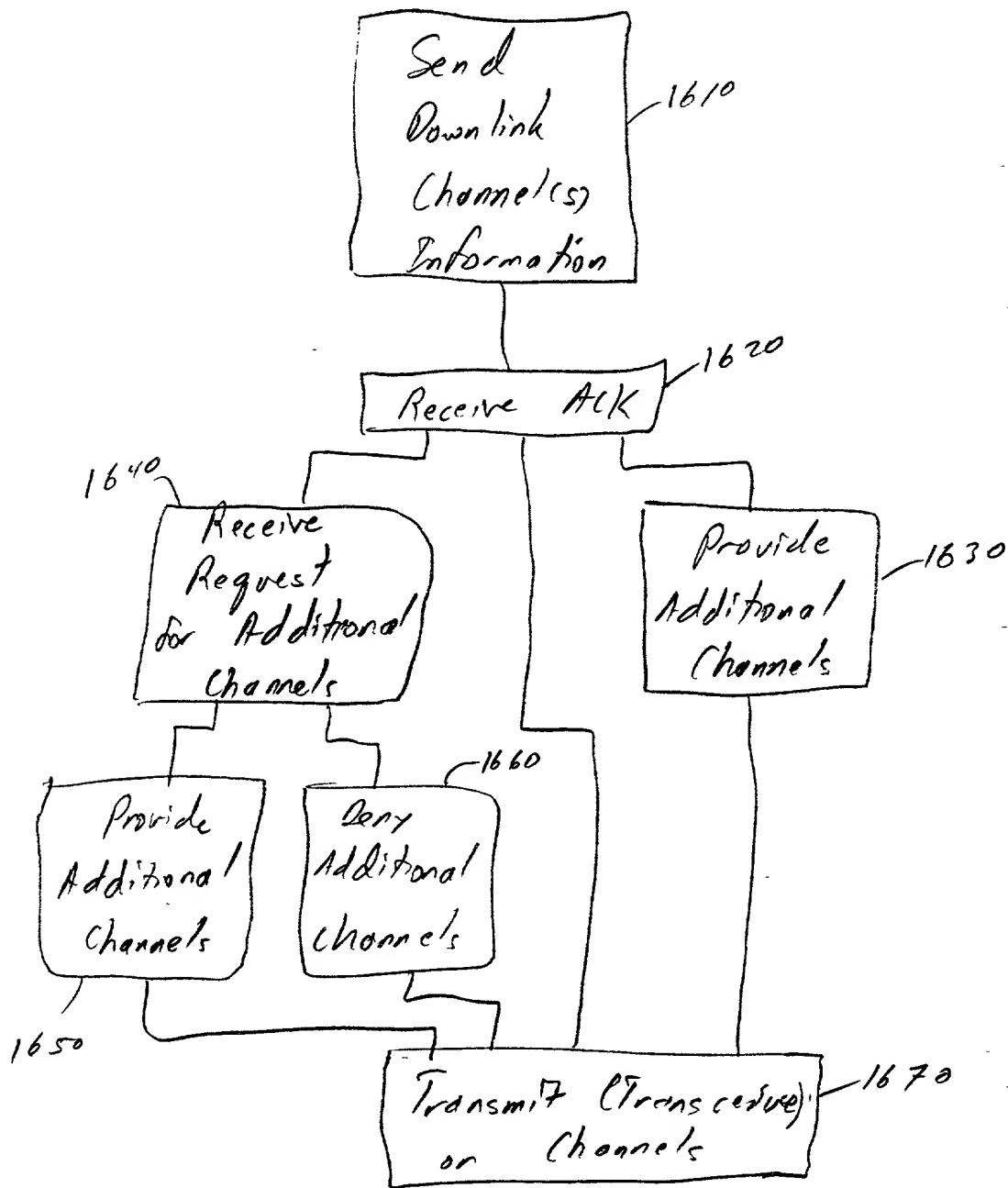


Fig. 5

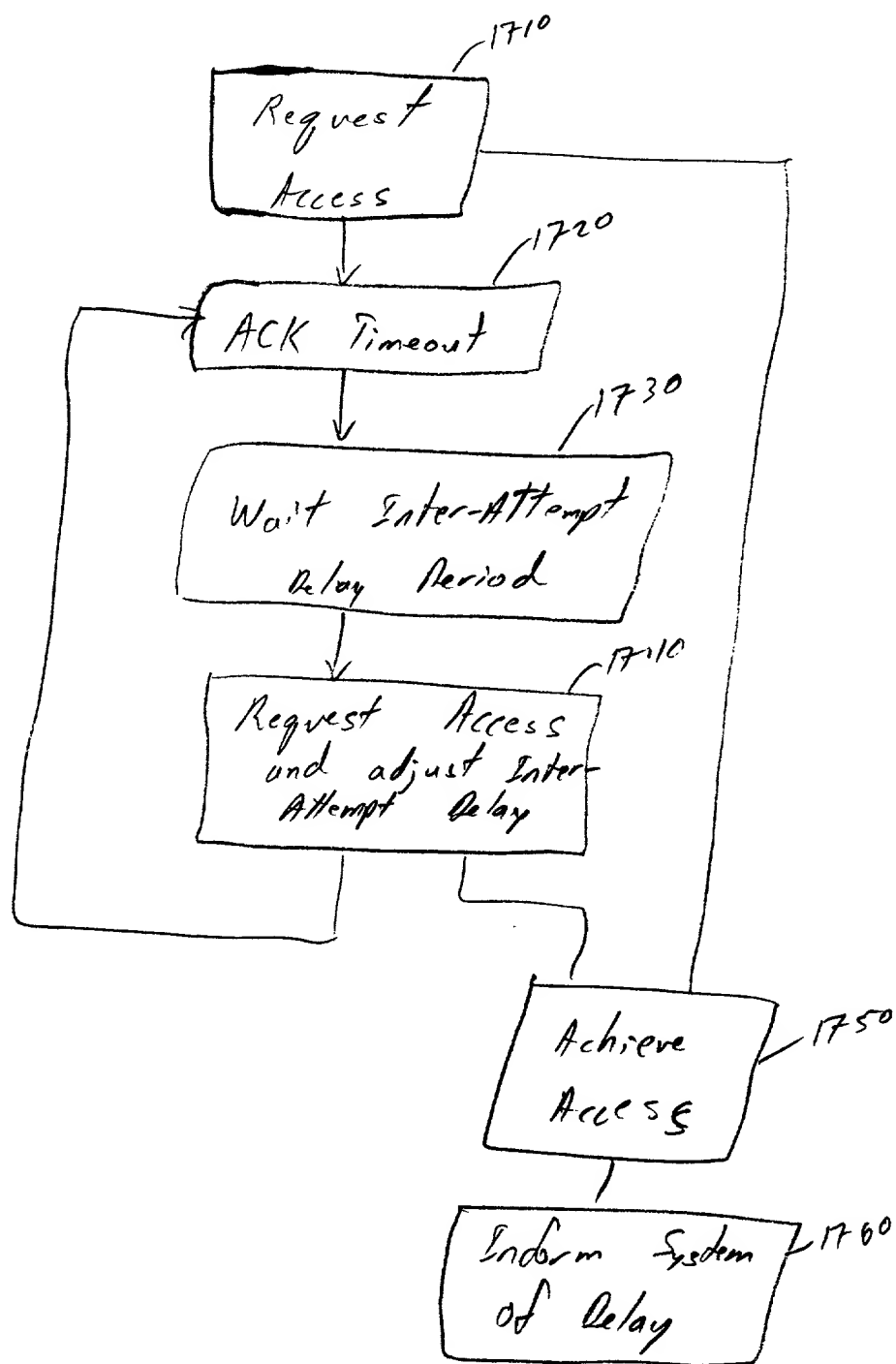


Fig. 6

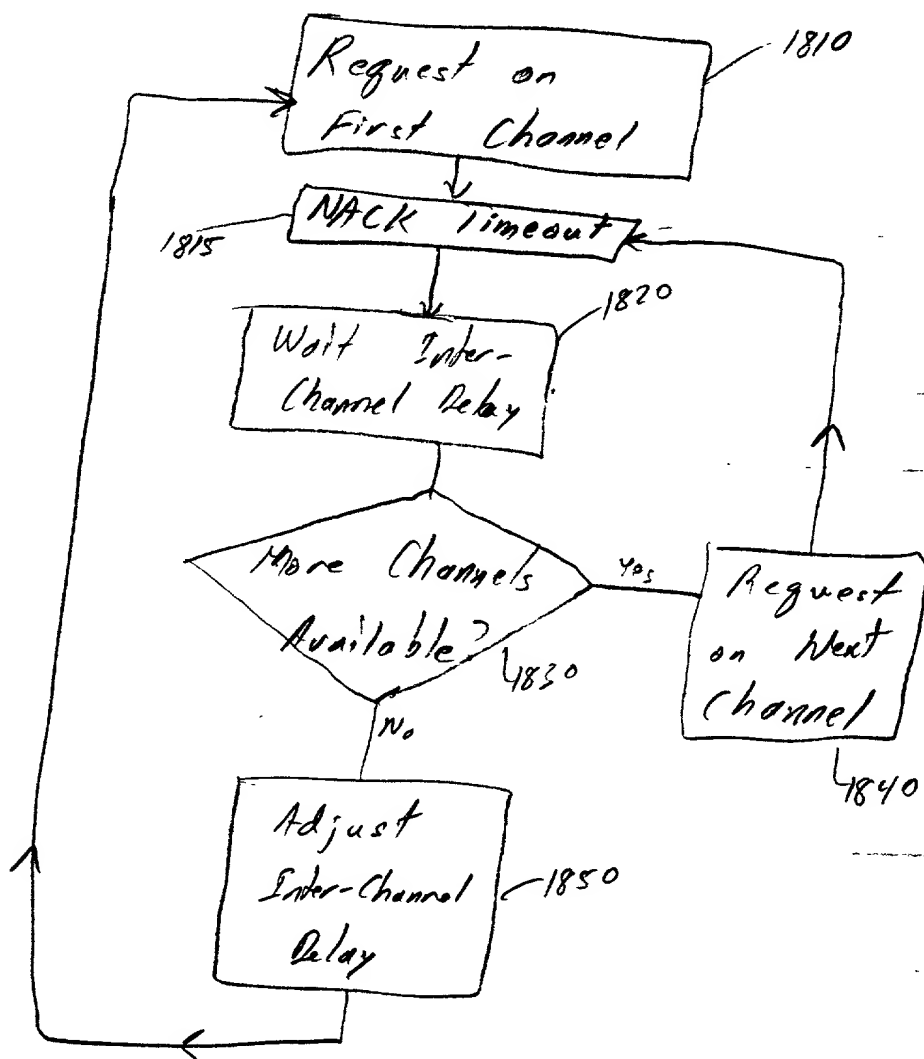


Fig. 7



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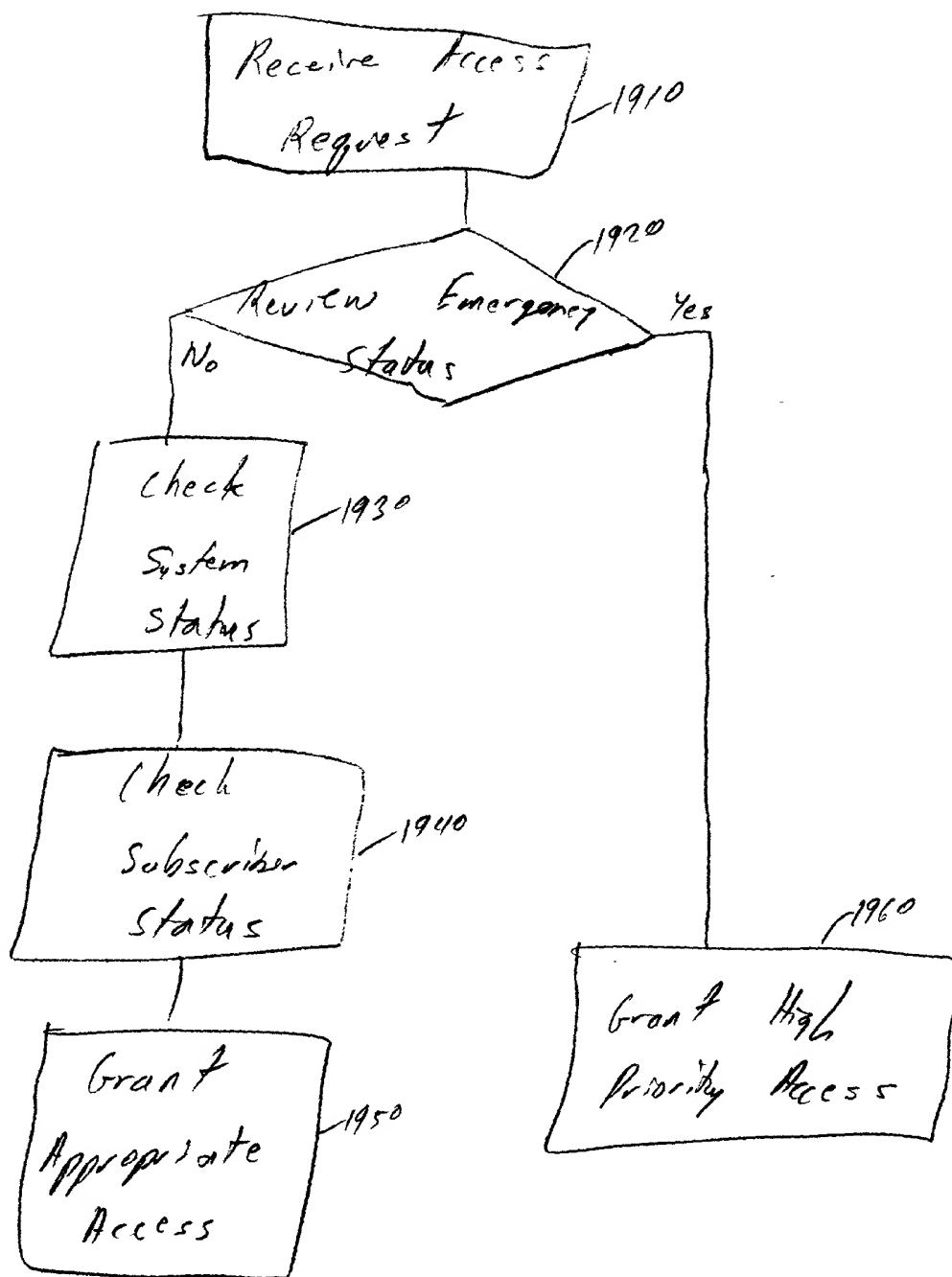


Fig. 8

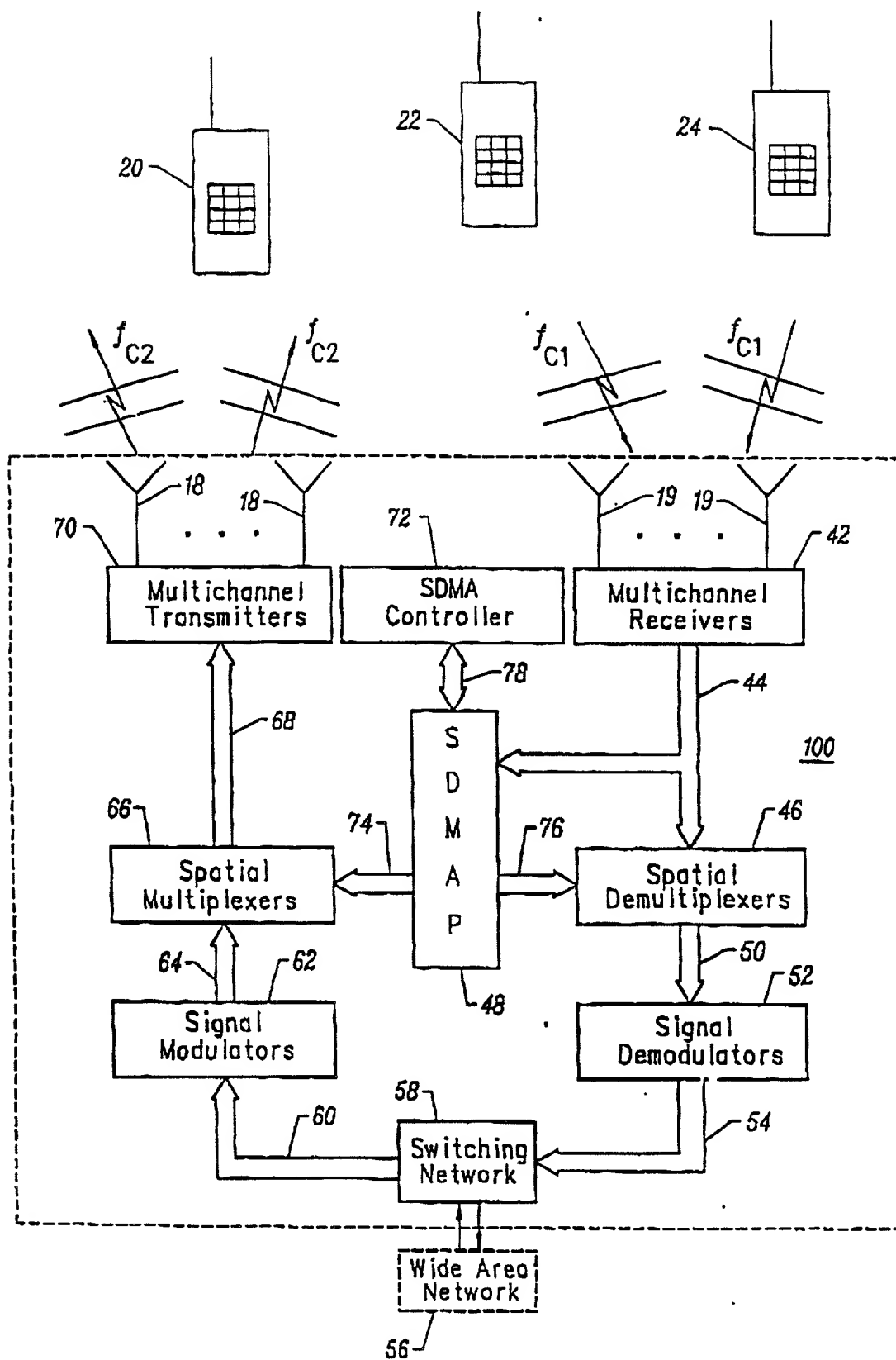


FIG. 9

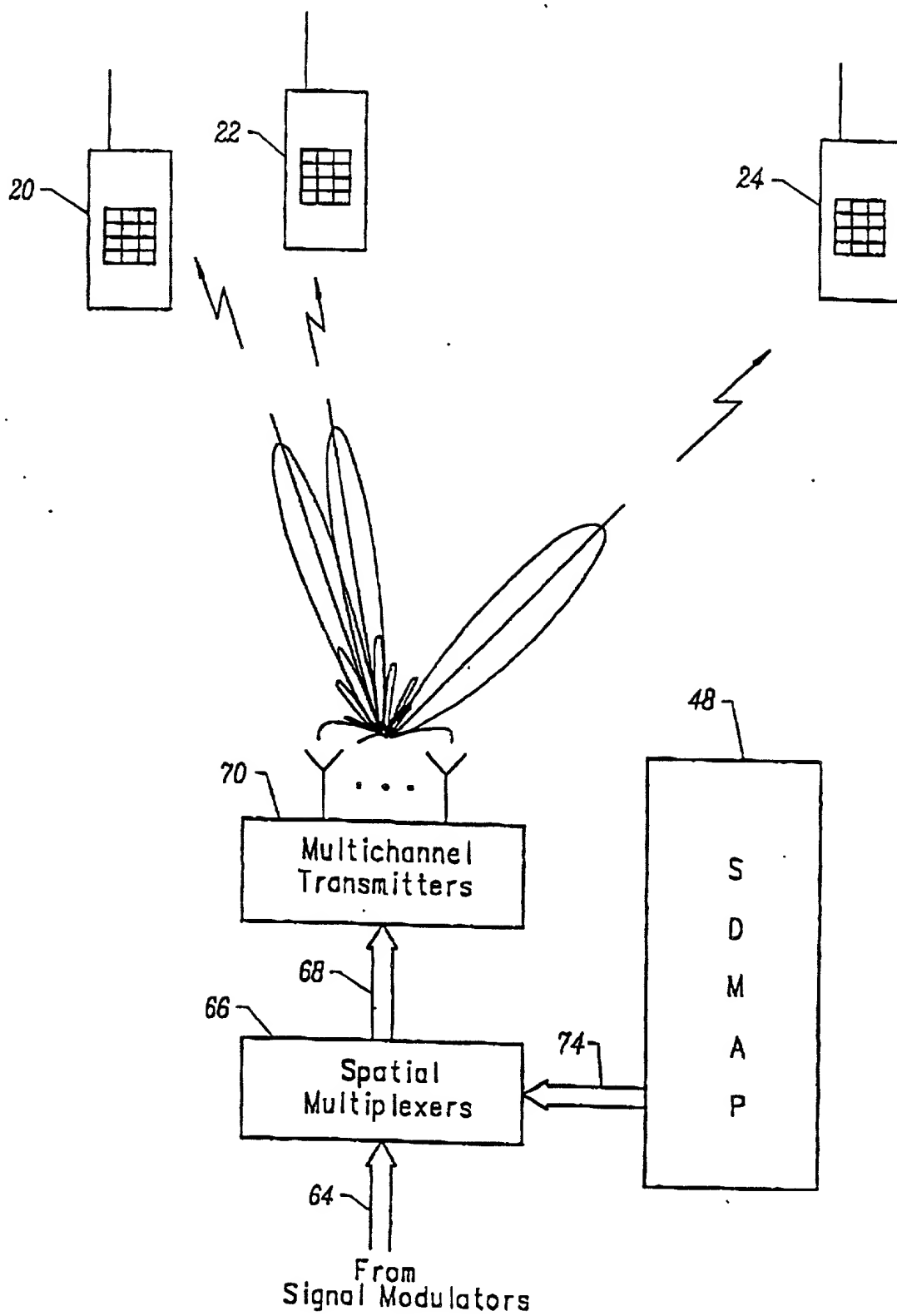


FIG. 10

The diagram illustrates a spatial multiplexing system (SDMAP) architecture. It includes the following components and connections:

- From Receivers (44):** Input signal entering the system.
- Data Compressor (160):** Receives input from the receivers and outputs to the Source Tracker (174) via line 166.
- Signal Detector (164):** Receives input from the SDMA Controller (72) via line 184 and outputs to the Parameter Estimator (168) via line 168.
- Parameter Estimator (168):** Outputs to the Source Tracker (174) via line 172.
- Source Tracker (174):** Receives input from the Data Compressor (160) and the Parameter Estimator (168). It outputs to the Demultiplexer Controller (178) via line 176.
- SDMA Controller (72):** Receives input from the Multiplexer Controller (180) via line 182 and outputs to the Signal Detector (164) via line 184.
- Multiplexer Controller (180):** Receives input from the SDMA Controller (72) and outputs to the Spatial Multiplexer (74) via line 74.
- Demultiplexer Controller (178):** Receives input from the Source Tracker (174) and outputs to the Spatial Demultiplexer (76) via line 76.

The entire system is labeled **SDMAP** and is enclosed in a dashed box. The output of the Spatial Multiplexer (74) is labeled **To Spatial Multiplexer**, and the output of the Spatial Demultiplexer (76) is labeled **To Spatial Demultiplexer**.

FIG. 11

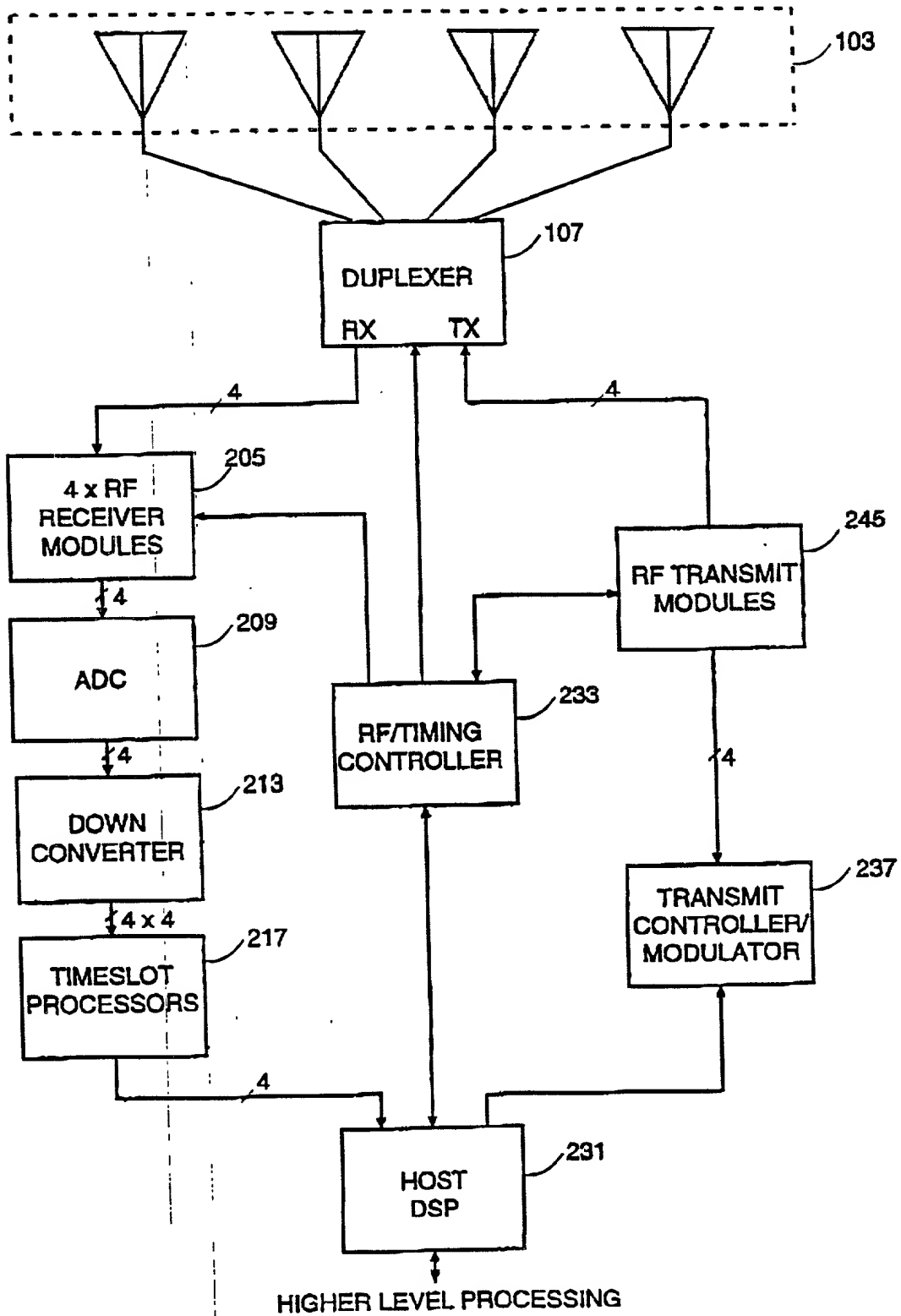


Figure 12

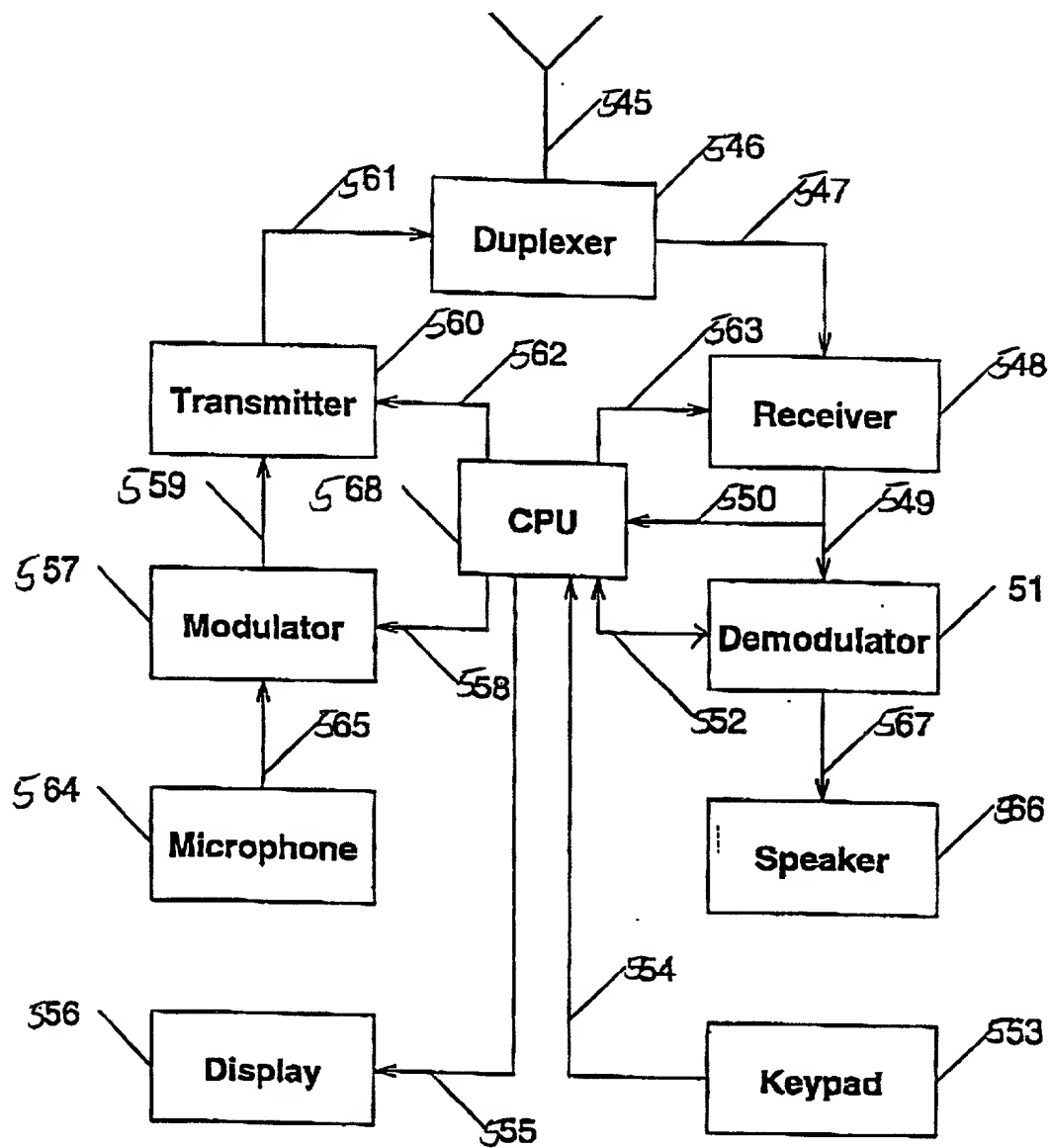


FIG. 13

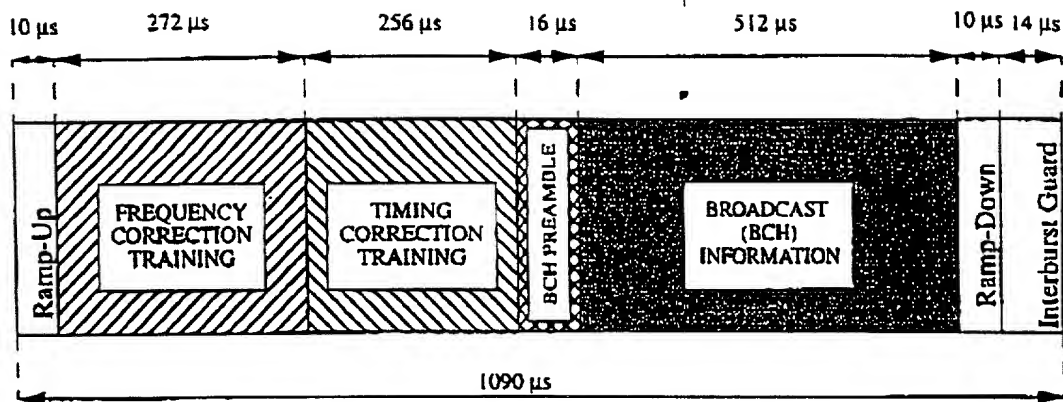


Fig. 14

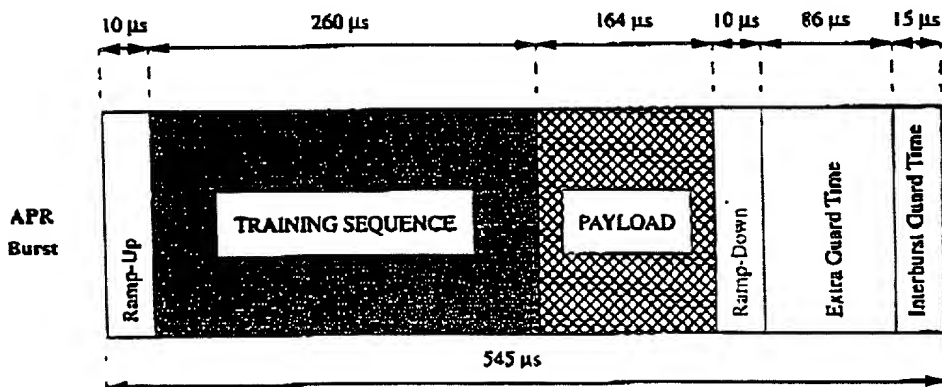


Fig. 15

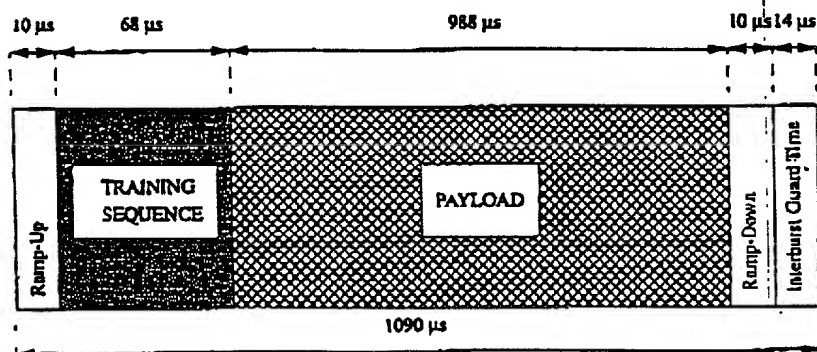


Fig. 16

	Base Station		Remote Terminal
300	Acquire GPS Timing		
302	Determine BCH slot time		
304		BCH $\Rightarrow$	
306			Scan BCH channels
308			Acquire Frame Timing
310			Acquire Synchronization
312			Build Map of Base Stations BCHs and BSCCs
314			Select Base Station
316			Build CR using UTID and transmit power
318			Scramble CR using BSCC
320		$\Leftarrow$ Configuration Request	
322	Unscamble CR using BSCC		
324	Determine Spatial Signature of Remote CR		
326		Configuration Message $\Rightarrow$	
328			Adjust timing and power
330		$\Leftarrow$ Traffic Request	
332		Traffic Assignment $\Rightarrow$	
334		$\Leftarrow$ Traffic $\Rightarrow$	
336		Send packet $\Rightarrow$	
338		$\Leftarrow$ Send DA and packet	
340		Send DA and packet $\Rightarrow$	
342		$\Leftarrow$ Send DA and packet	

Figure /7